

REMARKS

The above amendments to the claims are being made in order to eliminate multiple dependency and for the purpose of reducing the filing fee. Please enter this amendment prior to calculation of the filing fee in this case.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."

Favorable consideration and allowance are earnestly solicited.

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claim 67 has been added.

32. The construct according to claim [26] 31 wherein the second signal moiety is selected from the group [of claim 30] consisting of acrylodan; 5-dimethylaminonaphthalene-1-sulfonyl aziridine (danzyl aziridine); 4-[N-[2-iodoacetoxy)ethyl]-N-methylamino]-7-nitrobenz-2-oxa 1,3 diazole ester (IANBDE); 4-[N-[2-iodoacetoxy)ethyl]-N-methylamino]-7-nitrobenz-2-oxa 1,3 diazole amide (IANBDA); 6-acryloyl-2-dimethylaminonaphthalene (acrylodan); N-(7-chlorobenz-2-oxa-1,3-diazyl-4-yl)sulfonyl morpholine; 4-chloro-7-nitrobenz-2-oxa-1,3-diazole (NBD chloride); didansyl-L-cystine; N,N'-dimethyl-N-(iodoacetyl)-N'-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)ethylenediamine (IANBD amide); 7-fluorobenz-2-oxa-1,3-diazole 4-sulfonamide (ABD-F); 4-fluoro-7-nitrobenz-2-oxa-1,3-diazole (NBD fluoride); 2-(4'-(iodoacetamido)anilino)naphthalene-6-sulfonic acid, sodium salt (IAANS); 5-(((2-iodoacetyl)amino)ethyl)amino)naphthalene-1-sulfonic acid (1,5-IAEDANS); 2-(4'-maleimidylanilino)naphthalene-6-sulfonic acid (MIANS); N-(1-pyreneethyl)iodoacetamide; N-(1-pyrene)iodoacetamide; N-(1-pyrene)maleimide; N-(1-pyrenemethyl)iodoacetamide (PMIA amide); 1-pyrenemethyl iodoacetate (PMIA ester); N-(1-pyrenepropyl)iodoacetamide; 1-(2,3-epoxypropyl)-4-(5-(4-methoxyphenyl)oxazol-2-yl)pyridinium trifluoromethanesulfonate (PyMPO epoxide); erythrosin-5-iodoacetamide; fluorescein-5-maleimide; 5-iodoacetamidofluorescein (5-IAF); 6-iodoacetamidofluorescein (6-IAF); 1-(2-maleimidylethyl)-4-(5-(4-methoxyphenyl)oxazol-2-yl)pyridinium methanesulfonate (PyMPO maleimide); Oregon Green™ 488 iodoacetamide "mixed isomers"; tetramethylrhodamine-5-iodoacetamide (5-TMRIA) "single isomer"; tetramethylrhodamine-5-maleimide "single

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isomer"; tetramethylrhodamine-6-maleimide "single isomer";
Texas Red® C₅ bromoacetamide; and Texas Red® C₂ maleimide.

46. A kit for detection of the concentration of a hydrophobic Coenzyme A ester in a sample comprising

- i) at least a first construct according to [claims 26-46] claim 27,
- ii) a sample compartment for application of the sample.

55. [The kit according to claim 46] A kit for detection of the concentration of a hydrophobic Coenzyme A ester in a sample comprising

- i) at least first and second constructs [comprising a second hydrophobic-Coenzyme A ester binding construct] according to [claims 26-45] claim 27,
- ii) a sample compartment for application of the sample.

57. The kit according to claim 55 [or 56], wherein each construct has a K_D with respect to at least one species or a group of species of hydrophobic coenzyme A esters, which is substantially lower than the K_D of the other construct(s) with respect to this species or group of species.

65. The method according to claim 60, wherein step iii) comprises diluting a sub-sample of the solvent comprising the free fatty acids in a reaction mixture and performing a method [according to claim 1] of determining the concentration of free unbound hydrophobic coenzyme A ester in a sample comprising the steps of

- i) providing a hydrophobic Coenzyme A binding construct exhibiting a first signal when unbound and exhibiting a measurably different second signal when bound to a hydrophobic Coenzyme A ester,

ii) contacting the sample with the labeled
hydrophobic Coenzyme A binding construct,

iii) allowing at least one species of unbound free
hydrophobic Coenzyme A ester to bind to the hydrophobic
Coenzyme A binding construct forming a complex comprising a
hydrophobic Coenzyme A ester and the hydrophobic Coenzyme a
binding construct,

iv) detecting a signal from the complex,

v) correlating the signal to the concentration of
at least one species of hydrophobic Coenzyme A ester in the
sample.

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